

5/3/2019

[Dart Hawkesbury] Job Sheet - Renwick, Jennifer

010752



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

SWA10A-2-OH
Job Sheet OH194579



Part No: SWA10A-2-OH

Job Qty: 1 pcs

Part Name: Electric Swivel 10,000 lb Safe Work Load (4,536 Kg)



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 5/3/19

Job Tracking No:

Due Date: 7/5/19

Created By: Jennifer Renwick

Type: Rework - OH

Description: RA653 / Order15464 / SN
AC10013

Note: DWG SWA10A Rev. 3 IPP Rev. A 18.06.01 new issue DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
110	External Load - 1	1 pcs	7/5/19		0.00	1.00	External Load - 1		5178099
							External Load - 2		
							External Load - 3		
120	QC 5	1 pcs	7/5/19		0.00	0.00	QC 5 - 10		
							QC 5 - 12		
							QC 5 - 17		
							QC 5 - 18		
							QC 5 - 19		
							QC 5 - 22		
							QC 5 - 24		
							QC 5 - 3		
							QC 5 - 43		
							QC 5 - 49		
							QC 5 - 51		
							QC 5 - 58		
							QC 5 - 68		
							QC 5 - 9		
							QC 5 - 50		
							QC 5 - 30		
							QC 5 - 40		
125	Customer Acceptance	1 pcs	7/5/19		0.00	0.00	QC6		
130	Outsource - 2 - NDT per QSI038	1 pcs	7/5/19				SKY002-VC	5	2019-06-07
140	Packaging 2-1 - Receive - B4B	1 pcs	7/5/19		0.00	0.00	Packaging 2 - 1 - B4B		
							Packaging 2 - 2 - B4B		
							Packaging 2 - 3 - B4B		
							Packaging 2 - 5 - B4B		
							Packaging 2 - 4 - B4B		
							Packaging 2 - 6 - B4B		
							Packaging 2 - 7 - B4B		
							Packaging 2 - 8 - B4B		
							Packaging 2 - 9 - B4B		
							Packaging 2 - 10 - B4B		
							Packaging 2 - 11 - B4B		
							Packaging 2 - 12 - B4B		
							Packaging 2 - 13 - B4B		
							Packaging 2 - 14 - B4B		
							Packaging 2 - 15 - B4B		
							Packaging 2 - 16 - B4B		
							Packaging 2 - 17 - B4B		
							Packaging 2 - 18 - B4B		
							Packaging 2 - 19 - B4B		

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com



Container No: S178099



Part: SWA10A-2

Job No: OH194579

Serial No/Batch: AC10013

Revision: 3

Inspector:

Exp Date:

Instructions:

Date: 06/14/19

Plex 5/3/19 4:29 PM Dart.Renwick.Jennife

					Packaging 2 - 20 - B4B	
					Packaging 2 - 21 - B4B	
					Packaging 2 - 22 - B4B	
					Packaging 2 - 23 - B4B	
					Packaging 2 - 24 - B4B	
					Packaging 2 - 25 - B4B	
					Packaging 2 - 26 - B4B	
					Packaging 2 - 27 - B4B	
					Packaging 2 - 28 - B4B	
					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
180	QC 6	1 pcs	7/5/19	0.00 0.00	QC 6 - 9	DAS JUN 17 2019 68
					QC 6 - 68	
					QC 6 - 61	9-89
					QC 6 - 40	
190	Small Fab - 2 - B4B	1 pcs	7/5/19	0.00 1.00	Small Fab - 1 - B4B	AP 2019/07/08
					Small Fab - 2 - B4B	
					Small Fab - 3 - B4B	
					Small Fab - 4 - B4B	
					Small Fab - 5 - B4B	
					Small Fab - 6 - B4B	
					Small Fab - 7 - B4B	
200	QC 5	1 pcs	7/5/19	0.00 0.00	QC 5 - 10	
					QC 5 - 12	
					QC 5 - 17	
					QC 5 - 18	
					QC 5 - 19	
					QC 5 - 22	
					QC 5 - 24	
					QC 5 - 3	
					QC 5 - 43	
					QC 5 - 49	
					QC 5 - 51	
					QC 5 - 58	
					QC 5 - 68	
					QC 5 - 9	
					QC 5 - 50	
					QC 5 - 30	DAS 30 9-89 JUL 11 2019
					QC 5 - 40	
210	DC - 1 - B4B	1 pcs	7/5/19	0.00 0.00	DC - 1 - B4B	DAS 21 9-89 JUL 11 2019
					DC - 2 - B4B	
220	Packaging 3-1 - Stock - B4B	1 pcs	7/5/19	0.00 0.00	Packaging 3 - 1 - B4B	
					Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	DAS 30 9-89 JUL 11 2019
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	

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				Packaging 3 - 24 - B4B	
				Packaging 3 - 25 - B4B	
				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	
				Packaging 3 - 36 - B4B	
230 QC 21 - FG	1 pcs	7/5/19	0.00 0.00	QC 21 - FG - 21	DAG
				QC 21 - FG - 70	21
				QC 21 - FG - 53	9-59 JUL 11 19

Part Op 110 - TEST ASSEMBLY. DISASSEMBLE ASSEMBLY. INSPECT DAMAGE PART.
 Descriptions: 120 - (QC5- Inspect part completeness to step on W/O)
 140 - (Receive & Inspect for Damage & Mat'l Certs)
 180 - (QC6- All purchased or subcontracted products)
 190 - RE-ASSEMBLE. ***All assembly to be done in accordance with manual*** TEST ASSEMBLY.
 200 - (QC5- Inspect part completeness to step on W/O)
 210 - Photocopy blue file and create labels
 220 - (Identify as per dwg & Stock Location: _____)
 230 - (QC21- Final Inspection - Work Order Release)

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
SWA10A-2-AR	Electric Swivel 10,000 lb Safe Work Load (4,536 Kg)	1 pcs (1 ea)	110-External Load - 1	5176451
188-FPSS-1032-5/8	Set Screw	1 Ea (1 ea)	190-Small Fab - 2 - B4B	5179122 5037083
188-FSCS-1032-5/8	Flat socket cap Screw	4 Ea (4 ea)	190-Small Fab - 2 - B4B	5179122
C10-28	Swivel Bushing, C10/SWA10	1 pcs (1 ea)	190-Small Fab - 2 - B4B	5037083
EL-PLUG-F	3-Prong Female Spade Plug	1 Ea (1 ea)	190-Small Fab - 2 - B4B	
EL-PLUG-M	3-Prong Male Spade Plug	1 Ea (1 ea)	190-Small Fab - 2 - B4B	
EL314-SJTOW	Long Line Electrical Wire, 14/3 Gauge replace w/t 01004-08-047	6 ft (6 ea)	190-Small Fab - 2 - B4B	5179682
SWA10A-100	Lower End	1 pcs (1 ea)	190-Small Fab - 2 - B4B	
SWA10A-1100	Upper DU Bearing	1 pcs (1 ea)	190-Small Fab - 2 - B4B	5186335
SWA10A-1200	Lower DU Bearing	1 Ea (1 ea)	190-Small Fab - 2 - B4B	5062772
SWA10A-1300	Roller Thrust Bearing	1 Ea (1 ea)	190-Small Fab - 2 - B4B	5156223
SWA10A-1400	Circlip	1 Ea (1 ea)	190-Small Fab - 2 - B4B	5060997
SWA10A-1800	Cover	1 pcs (1 ea)	190-Small Fab - 2 - B4B	5099112
SWA10A-200	Upper End Swivel	1 pcs (1 ea)	190-Small Fab - 2 - B4B	
SWA10A-300	Bearing Housing	1 pcs (1 ea)	190-Small Fab - 2 - B4B	
SWA10A-400	Thrust Washer	1 pcs (1 ea)	190-Small Fab - 2 - B4B	5115828
SWA10A-500	Semi-Rings	1 pcs (1 ea)	190-Small Fab - 2 - B4B	
SWA10A-600	Collar	1 pcs (1 ea)	190-Small Fab - 2 - B4B	
SWA10A-700	Wire Clamp	2 pcs (2 ea)	190-Small Fab - 2 - B4B	511654 5152898
SWA6A-1900	1/4" Female Spade Connector	4 Ea (4 ea)	190-Small Fab - 2 - B4B	5192706
SWA6A-800A	Connector Bushing	1 pcs (1 ea)	190-Small Fab - 2 - B4B	
SWA6A-900A	Rotary Connector - 2 wire	1 pcs (1 ea)	190-Small Fab - 2 - B4B	

5111654

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
110-External Load - 1 190-Small Fab - 2 - B4B	SWA10A-2	1	0	0
	188-FPSS-1032-5/8	1	263	0
	188-FSCS-1032-5/8	4	94	0
	C10-28	1	37	0
	EL-PLUG-F	1	26	0
	EL-PLUG-M	1	56	0
	EL314-SJTOW	6	0	0
	SWA10A-100	1	5	0
	SWA10A-1100	1	4	0
	SWA10A-1200	1	19	0
	SWA10A-1300	1	13	0
	SWA10A-1400	1	14	0
	SWA10A-1800	1	8	0
	SWA10A-200	1	12	0
	SWA10A-300	1	5	0
	SWA10A-400	1	15	0
	SWA10A-500	1	21	0
	SWA10A-600	1	11	0
	SWA10A-700A	2	26	0
	SWA6A-1900	4	253	0
	SWA6A-800A	1	8	0
	SWA6A-900A	1	16	0
Part Specifications				
Specifications could not be found.				

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Loctite 242 (5186572)
 Loctite 620 (5166705)
 Silicone grease (M139008)
 Aeroshell grease N07 (5138964)
 Saf-T-gre (M138973)



Inspection Sheet Complete

RA653

Customer QA Ref #

0

Part Number	Original Batch / Serial # / Ctrl #	Original Revision #	Quantity	Part Complete	Rev/CHG Current	New Paperwork	New Labels	Disposition	Original Container #	New (Receiving) Serial #	New Job #	Work order instructions
C10	AC10003		1	☒ Yes	☐ Yes	☐ Yes	☐ Yes	CUSTOMER SUPPLIED		S176899		Overhaul
SWA10A-2	03-4357-01 / AC10013		2	☒ Yes	☐ Yes	☐ Yes	☐ Yes	CUSTOMER SUPPLIED		S176900/S176951		Overhaul
C60	3162-01		1	☒ Yes	☐ Yes	☐ Yes	☐ Yes	CUSTOMER SUPPLIED		S176937		Overhaul
SWA6A-3	3234-03 / 3153- 02 / 2940-01		3	☒ Yes	☐ Yes	☐ Yes	☐ Yes	CUSTOMER SUPPLIED		S176938, S177994, S177995		Overhaul
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					

QC Approval: _____ 0

Date: 0-Jan-00 _____

Special Return/Rework Instructions:



Work Order 194579Customer RA 653Number of Wires 2Date 2019-5-10Serial Number AC 10013

Number of Cycles	Load (Lbs.)	Action	Pass/Fail
1	10,000	Check for Conductivity against all wires.	Pass
1	10,000	Check all wires for grounding against swivel body.	Pass
1	5,000	Check for Conductivity against all wires.	Pass
1	5,000	Check all wires for grounding against swivel body.	Pass
1	2,500	Check for Conductivity against all wires.	Pass
1	2,500	Check all wires for grounding against swivel body.	Pass
1	0	Check for Conductivity against all wires.	Pass
1	0	Check all wires for grounding against swivel body.	Pass

Test Conducted By: Michel Lelonde

Signature: _____

Technician

QC 5 Small FAB / QA

Submit



DATE: 2019/06/04

N.D.T

MODEL: SWA10A-2

S/N : AC10013

Job : OH194579

RA.# 653

ORDER : 15464

P/N	DESCRIPTION	QUANTITY
SWAGA-100	LOWER END	1
SWAGA-200	UPPER END	1
SWAGA-300	BEARING HOUSING	1
SWAGA-500	SEMI-RING	2
SWAGA-600	COLLAR	1

ALAIN PATRY



DATE: 2019/06/04

N.D.T

MODEL: SWAGA-2

S/N : AC10013

Job : 04194579

ORDER : 15464

RA.# 653

P/N	DESCRIPTION	QUANTITY
SWAGA-100	LOWER END	1
SWAGA-200	UPPER END	1
SWAGA-300	BEARING HOUSING	1
SWAGA-500	SEMI-RING	2
SWAGA-600	COLLAR	1
TOTAL		6
ALVIN PATRY		



Overhaul Incoming Inspection
SWIVEL

Customer

OH194579 / RA653

Date

2019/06/05

Part Number

SWA10A-2

Serial Number

AC10013

ORDER : 15464

Additional Recommended Replacement Parts

Part Number to Replace

Customer Approval

(1) SWA10A-700A WIRE CLAMP

☐

(1) SWA10A-1800 COVER

☐☐☐☐☐☐☐☐☐

Inspected By

ALAN PATRY



Overhaul Incoming Inspection
SWIVEL

Customer

OH194579 / RA653

Date

2019/06/05

Part Number

SWA10A-2

Serial Number

AC10013

ORDER : 15464

Additional Recommended Replacement Parts

Part Number to Replace

Customer Approval

(1) SWA10A-700A WIRE CLAMP

☐

(1) SWA10A-1800 COVER

☐☐☐☐☐☐☐☐☐

Inspected By

ALAN PATRY



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **POHB043674**



Supplier: SKY002-VC
Skyservice
6120 Midfield Road
Mississauga
ON
L5P 1B1 Canada
Phone: 905-678-5636
Fax: 905-678-5841

Attention: Jenne, Heather

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB043674
PO Date: 6/7/19
Due Date: 6/12/19
Purchase Order Revision:
Revision Date:
Ship-To Contact: Guerin, Kimberley
kguerin@dartaero.com

Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	OH194581	C60-OH	C-Series Remote Hook 6,000 lbs Lift Capacity LIQUID PENETRANT INSPECTION AS PER QSI 038	Firmed	-	6/12/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
					1 X	JUN 14 2019					
2	OH194577	C10-OH	C-Series Remote Hook 10,000 lbs Lift Capacity ISSUE P/O: _____ C OF C IS REQUIRED	Firmed	-	6/12/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
					1 X	JUN 14 2019					
3	OH194580	SWA10A-2-OH	Electric Swivel 10,000 lb Safe Work Load (4,536 Kg)	Firmed	-	6/12/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
					1 X	JUN 14 2019					
	OH194579			Firmed	-	6/12/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
					1 X	JUN 14 2019					
Sub Total:							2	0	2		\$356.00

4	OH194582	SWA6A-3-OH	Electric Swivel 6,000 lb Safe Work Load (2,721 kg)	Firmed	-	6/12/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
					1 X	JUN 14 2019					
	OH194583			Firmed	-	6/12/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
	OH195074			Firmed	-	6/12/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
					1 X	JUN 14 2019					
Sub Total:							3	0	3		\$534.00

Grand Total: \$1,246.00



Dart Aerospace Ltd.
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K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER POHB043674



Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/14/19 11:46 AM Dart.Guerin.Kimberley

**skyservice****Work Order Traveler**

Sky Service F.B.O. Inc.

10105 Ryan Avenue, Dorval, Quebec, H9P 1A2

TCCA AMO 53-89 / EASA 145.7142 / BDA AMO 385

WO #: MWO40719	Customer: Dart Aerospace Ltd.	Dept: NDT YUL	Reference: POHB043674 ✓
Descr:	PN:	S/N:	Qty: 1
Make:	Model:	Reg:	A/C S/N:
TSN:	CSN:	TSO:	
Task: UNSCHEDULED			Sequence: 1

Work Required:**CARRY OUT NDT ON:**

✓ 1 C-SERIES REMOTE HOOK , P/N# C60-OH , J/S# OH194581 ✓

1 C-SERIES REMOTE HOOK , P/N# C10-OH , J/S# OH194577 ✓

1 ELECTRIC SWIVEL , P/N# SWA10A-2-OH , J/S# OH194580 ✓

1 ELECTRIC SWIVEL , P/N# SWA10A-2-OH , J/S# OH194579 ✓

1 ELECTRIC SWIVEL , P/N# SWA6A-3-OH, J/S# OH194582 ✓

1 ELECTRIC SWIVEL , P/N# SWA6A-3-OH, J/S# OH195074 ✓

1 ELECTRIC SWIVEL , P/N# SWA6A-3-OH, J/S# OH194583 ✓

DAS
68
9-89\$1246.00
\$178/each

Action Taken:	Date:	Initial/Stamp:				
LPI & MPI CARRIED OUT IAW ASTM E-1417M-16 AND ASTM E-1444M-16 ***NO CRACK FOUND*** PEN , ZL-37 MPO#: 23206 CLEANER SKC-S MPO15030, EMU.(ZR-10B, MPO23451), DEV. MPO15030, UV LIGHT M-20142 MAGBENCH S/N 208123 CAL DUE: 25-SEP-2019 POWDER 14A BATCH# MPO13600 CARRIER II BATCH# MPO22794 BLACK LIGHT-M20186 RECEIVED JUN 14 2019 DART AEROSPACE LTD.	JUN 11 2019	 RV				
Description	Location	P/N	Qty	Batch	S/N Off	S/N On
N/A						

I certified that the maintenance described above has been performed in accordance with the applicable standard of airworthiness.

Signature:	ACA/SCA Stamp DOT-APP 310 53-89	Date: JUN 11 2019
Name: RICARDO VARGAS		

Work Order 194579Customer RA 653 15464Number of Wires 2Date 2019-6-27Serial Number AG 10013

Number of Cycles	Load (Lbs.)	Action	Pass/Fail
1	10,000	Check for Conductivity against all wires.	Pass
1	10,000	Check all wires for grounding against swivel body.	Pass
1	5,000	Check for Conductivity against all wires.	Pass
1	5,000	Check all wires for grounding against swivel body.	Pass
1	2,500	Check for Conductivity against all wires.	Pass
1	2,500	Check all wires for grounding against swivel body.	Pass
1	0	Check for Conductivity against all wires.	Pass
1	0	Check all wires for grounding against swivel body.	Pass

Test Conducted By: Michel Lalonde

Technician

Signature: Sylvie Poucher
QC 5 Small FAB / QA**Submit**